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**HYPODERMIC JET INJECTOR****Publication date:** 2000-08-08**Inventor(s):****Applicant(s):****Classification:** - International: **A61M5/30; (IPC1-7): A61M5/30**  
- European: A61M5/30**Application number:** JP19980517471T 19961009**Priority number(s):** WO1996US16184 19961009

- JP 3213008 (B2)
- CA 2259560 (A1)
- CA 2259560 (C)
- WO 9615307 (A1)
- ES 2251728 (T3)
- more

**Abstract not available for JP 2000510021 (T)****Abstract of corresponding document: CA 2259560 (A1)**

A system is provided that is useful for a hypodermic jet injection of medication without piercing the skin with a needle. The system includes a spring actuated needleless hypodermic injector device (26) for injecting medication through the skin. The injector device includes an ampule assembly (27) having a chamber for holding liquid medication and an injector for receiving and mounting the ampule assembly. A plunger assembly (202), movable within the ampule chamber is used for drawing liquid medication into the ampule chamber and for ejecting liquid medication out from a chamber. The injector includes a spring actuated piston (230) which provides a force to move the ampule assembly plunger and thereby force liquid medication to leave the chamber at such velocity that it can be hypodermically injected at an injection site. The system also includes a coupler for use on a medication vial for transferring medication to the ampule assembly.

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